

September 27, 1994

Mr. Charles B. Schwer  
Vermont DEC  
Hazardous Materials Management Division  
103 South Main Street/ West Office  
Waterbury, Vermont 05671-0404

SEP 28 10 52 AM '94

RE: Groundwater Sampling and Analysis at Frank's Market  
Vermont DEC Site #88-0224  
Con-Test Project #94-250-146

Dear Mr. Schwer:

The following correspondence is in reference to groundwater sampling and analysis at Frank's Market, located on route 100, Eden Mills, Vermont. The purpose of the sampling was to determine if previously confirmed groundwater contamination was still present at the site. The source of the previously confirmed contamination was a result of leaking underground storage tanks, which were removed in 1989. Enclosed are sample results for EPA methodology 8020 (BTEX and MTBE).

The two (2) samples were collected on September 1, 1994 from two existing monitoring wells adjacent to the former underground storage tank graves. Depth to groundwater was determined to be 4.5 feet at MW#-1 and 4.8 feet at MW#-2. Groundwater was assumed to be moving in a southwesterly direction. Both wells are located within 40 feet of the Gihon River. A strong petroleum odor and sheen was observed during the well sampling event.

#### Laboratory Analysis

Sample #MW-1, collected at an existing well potentially down gradient from the former tank grave, was determined to contain BTEX compounds exceeding Groundwater Enforcement Standards. The concentrations were as follows: Benzene 1060 ug/l; Ethyl Benzene 1,790 ug/l; Toluene 9,240 ug/l; Total Xylenes 16,200 ug/l.

Sample #MW-2, collected from an existing well potentially upgradient from the former tank grave, was determined to contain Benzene and Total Xylene concentrations exceeding State Groundwater Enforcement Standards. The concentrations were as follows: Benzene 186 ug/l; Ethyl Benzene 395 ug/l; Toluene 332 ug/l; Total Xylenes 2,710 ug/l.

Frank's Market  
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Standard protocols were followed for all applicable field activities and sampling. A trip-blank accompanied all field activities during the sampling event. Laboratory analysis of the trip-blank determined no detect for all compounds tested .

If you have any questions concerning this matter please contact me at (802) 879-3008.

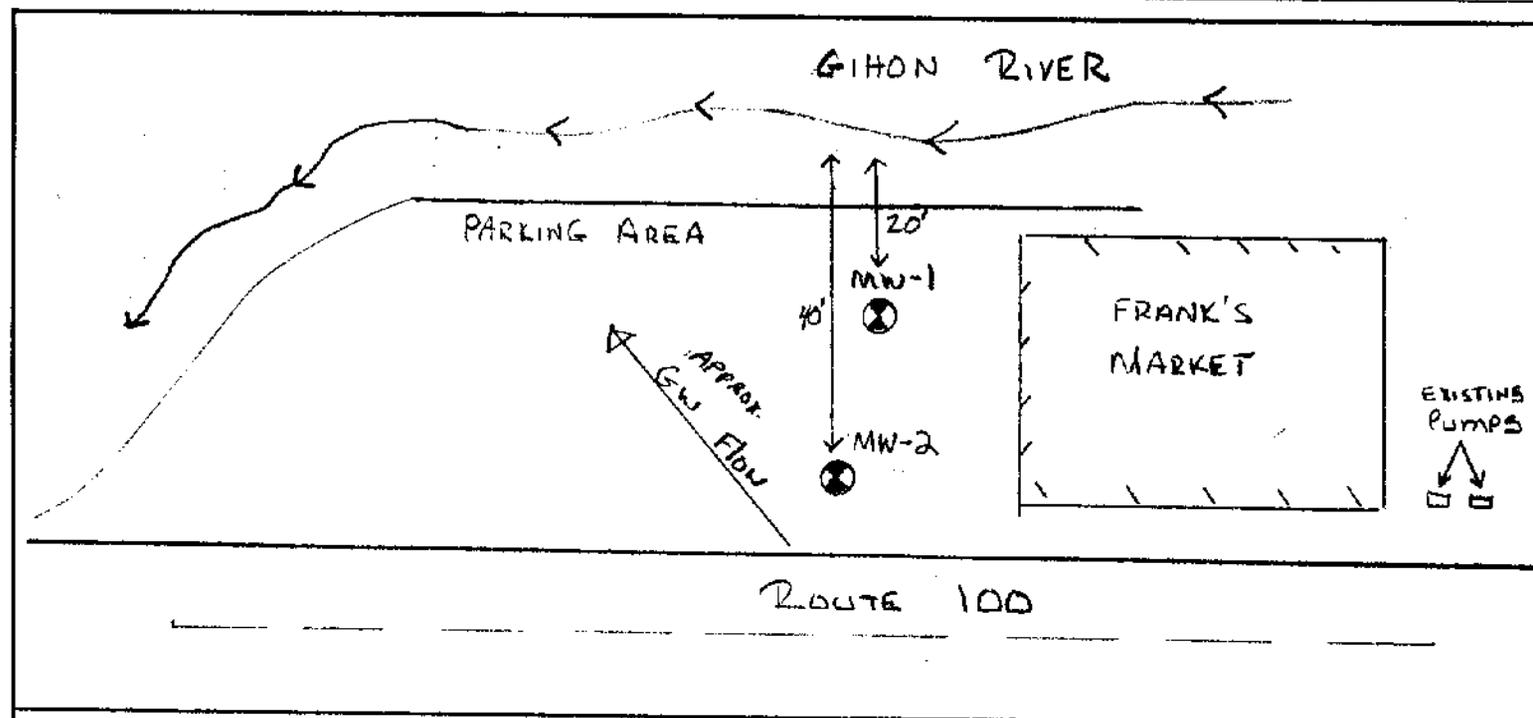
Sincerely

Con-Test, Inc.  
*environmental consulting-testing*



Robert G. Giordano  
Environmental Hygienist

cc: Frank's Market



SITE LOCATION MAP

PREPARED FOR VT DEC SOURCE

PROJECT NAME FRANK'S MARKET PROJECT # 94-250-196

SITE LOCATION EDEN MILLS, VT SCALE N.T.S.


**CON-TEST Inc.**  
 WATER AND AIR ENGINEERING  
 18 Bigler Park Road P.O. Box 825  
 Suite 301 Williston, Vt. 05495



39 Spruce Street • P.O. Box 591 • East Longmeadow, MA 01028 • FAX (413) 525-6405 • TEL (413) 525-2432 (800) 621-9081

FRANK'S MARKET

CONTACT: ROBERT GIORDANO  
FIELD OFFICE: Williston, VT

REPORT DATE: 09/08/94

PURCHASE ORDER NUMBER: 45665

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-15643  
JOB NUMBER: 94-250-146

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION:

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
MW-01	94B16133	GRND WATER	MW-1 NEAR RIVER	602/8020 water
MW-02	94B16134	GRND WATER	MW-2 NEAR ROAD	602/8020 water
TRIP BLANK	94B16135	GRND WATER	TRIP BLANK	602/8020 water

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

- AIHA 308
- MASSACHUSETTS MA100
- CONNECTICUT PH-0567
- NEW YORK ELAP 10899
- PENNSYLVANIA DER 68-433
- NEW HAMPSHIRE 2516
- AIHA ELLAP (LEAD) 6838
- MAINE (POTABLE/NON-POTABLE)
- VERMONT DQH (LEAD) No. 15036

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

*Edward Denson* 9/9/94  
SIGNATURE DATE

Tod Kopyscinski  
Director of Operations

Edward Denson  
Technical Director



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FRANK'S MARKET

Contact: ROBERT GIORDANO  
Field Office: Williston, VT

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Purchase Order Number: 45665

Project Location:  
Date Received: 09/02/94

LIMS-BAT #: LIMS-15643  
Job Number: 94-250-146  
Sample Matrix: GRND WATER

Sampled: 09/01/94  
MW-1 NFAR RIVER  
MW-01

	Units	94B16133	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/l	1060	09/07/94	MFF	10.0		
Chlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,2-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,3-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,4-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
Tot Dichlorobenzenes	ug/l	ND	09/07/94	MFF	75.0		
Ethyl Benzene	ug/l	1790	09/07/94	MFF	25.0		
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	09/07/94	MFF	25.0		
Toluene	ug/l	9240	09/07/94	MFF	25.0		
p&m-Xylene	ug/l	10900	09/07/94	MFF	50.0		
o-Xylene	ug/l	5350	09/07/94	MFF	25.0		
Total Xylenes	ug/l	16200	09/07/94	MFF	75.0		

Sampled: 09/01/94  
MW-2 NEAR ROAD  
MW-02

	Units	94B16134	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/l	186	09/07/94	MFF	10.0		
Chlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,2-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,3-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
1,4-Dichlorobenzene	ug/l	ND	09/07/94	MFF	25.0		
Tot Dichlorobenzenes	ug/l	BDL	09/07/94	MFF	75.0		
Ethyl Benzene	ug/l	395	09/07/94	MFF	25.0		
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	09/07/94	MFF	25.0		
Toluene	ug/l	332	09/07/94	MFF	25.0		
p&m-Xylene	ug/l	620	09/07/94	MFF	50.0		
o-Xylene	ug/l	2090	09/07/94	MFF	25.0		
Total Xylenes	ug/l	2710	09/07/94	MFF	75.0		

MDL = Method Detection Limit  
ND = Not Detected  
BDL = Below Detection Limit  
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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LIMS-BAT #: LIMS-15643  
Job Number: 94-250-146  
Sample Matrix: GRND WATER

Sampled: 09/01/94  
TRIP BLANK  
TRIP BLANK

	Units	94B16135	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/l	ND	09/07/94	MFF	0.2		
Chlorobenzene	ug/l	ND	09/07/94	MFF	0.5		
1,2-Dichlorobenzene	ug/l	ND	09/07/94	MFF	0.5		
1,3-Dichlorobenzene	ug/l	ND	09/07/94	MFF	0.5		
1,4-Dichlorobenzene	ug/l	ND	09/07/94	MFF	0.5		
Tot Dichlorobenzenes	ug/l	ND	09/07/94	MFF	1.5		
Ethyl Benzene	ug/l	ND	09/07/94	MFF	0.5		
Methyl tert-Butyl Ether (MTBE)	ug/l	ND	09/07/94	MFF	0.5		
Toluene	ug/l	ND	09/07/94	MFF	0.5		
p&m-Xylene	ug/l	ND	09/07/94	MFF	1.0		
o-Xylene	ug/l	ND	09/07/94	MFF	0.5		
Total Xylenes	ug/l	ND	09/07/94	MFF	1.5		

Analytical Method(s):

EPA 602/SW846 8020

SAMPLES ARE CONCENTRATED BY PURGE AND TRAP, FOLLOWED BY GAS CHROMATOGRAPHY ANALYSIS WITH PHOTOIONIZATION DETECTION (PID).

MDL = Method Detection Limit  
ND = Not Detected  
BDL = Below Detection Limit  
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates  
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab Fortified Blanks and Duplicates  
Standard Reference Materials and Duplicates  
Method Blanks

Report Date: 09/08/94

Lims Bat #: LIMS-15643

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QC Batch Number: GC/PID-305

Sample Id	Analysis	QC Analysis	Values	Units	Limits
94B16133	1-Cl-2-Fluorobenzene	Sur. Recovery (PID)	97.1	%	92.4-108.0
94B16134	1-Cl-2-Fluorobenzene	Sur. Recovery (PID)	89.0	%	92.4-108.0
94B16135	1-Cl-2-Fluorobenzene	Sur. Recovery (PID)	97.3	%	92.4-108.0